- JUDGE STEINBERG: That's okay. The ultimate, and
- you tell me if I have your question right, Mr. Aronowitz,
- 3 tell me if it's not your question.
- If the ultimate fail-safe was that the Fort Lee
- 5 translator would pick up the signal of Pomona --
- 6 THE WITNESS: Yes.
- JUDGE STEINBERG: -- why not just do that to start
- 8 with?
- 9 Is that your question?
- MR. ARONOWITZ: (Nods affirmatively.)
- JUDGE STEINBERG: I think you have to answer
- 12 again.
- 13 THE WITNESS: Okay. I just -- I am not following
- this, and I am very sorry.
- 15 Are you asking me --
- JUDGE STEINBERG: You can ask a question of Mr.
- 17 Aronowitz.
- 18 THE WITNESS: I'm sorry.
- BY MR. ARONOWITZ;
- 20 Q Go ahead.
- 21 A Are you asking me if when Serge Loginow gave this
- whole system dead carrier, because that's what he did, he
- generated 950 on the roof, if you generate complete dead
- carrier, why didn't it go to 94.3 when he was doing it? Is
- 25 that the question?

- 1 Q No.
- 2 A Okay.
- Q I have to just make sure I understood your
- 4 question --
- 5 A Okay.
- 6 O -- and as I understand it the answer is no.
- 7 A I am desperately trying to follow this.
- 8 O Why didn't you -- and I quess you've answered this
- 9 to some degree, but I need to take this one step further.
- 10 Why even put this system in place?
- 11 A Because it was there to begin with.
- 12 Q Okay. And it was there, and you could take
- advantage of it as what? As a remote control?
- 14 A I could take advantage as a partial remote
- 15 control.
- 16 Q But I thought you said telemetry was the prime
- 17 purpose of this?
- 18 A Yes. Yes.
- 19 Q All right. So this really was for remote control,
- 20 prime purpose, telemetry being the remote control?
- 21 A Are we talking about the intercity relay as the
- 22 primary concern being remote control, is that what --
- 23 Q Yes.
- 24 A Was that the primary -- primary may not be the
- 25 main -- a good word to use, and I'll explain to you why.

- 1 The telemetry, the data path that was on the
- 2 intercity relay was 24 hours a day, seven days a week. So
- 3 when I say "primary," that's really what I'm referring to.
- It was there 24 hours a day, seven days a week,
- 5 continuously. So that's what I meant by primary.
- JUDGE STEINBERG: But the purpose of it was so
- 7 that you would be able to control the Fort Lee translator by
- 8 remote?
- 9 THE WITNESS: Exactly.
- 10 JUDGE STEINBERG: From Dumont?
- 11 THE WITNESS: Yes.
- BY MR. ARONOWITZ;
- 13 Q There were only two purposes, as I understand this
- 14 link. Telemetry/remote control is one purpose.
- 15 A Yes.
- 16 Q The other purpose is to deliver audio?
- 17 A Yes.
- 18 Q Okay. And the primary purpose was not to deliver,
- 19 "primary" as in the normal English sense, primary being the
- 20 main, being more than 50 percent, the main, the primary, the
- 21 key function of this microwave set up was -- was it for
- telemetry remote control or was it for audio?
- 23 A Telemetry remote control.
- Q Okay, great.
- Was there other remote control? Was there any

- other remote control between Dumont and Fort Lee?
- 2 A Was there like another TC-8?
- 3 Q Remote control of any sort.
- A Besides what we've described here in this
- 5 courtroom today?
- 6 O Correct.
- 7 A No.
- 8 Q Was their a dial-up phone?
- 9 A No.
- MR. NAFTALIN: Can we pin down the time period
- 11 here, just for clarity.
- MR. ARONOWITZ: All right. At any time that this
- 13 link existed.
- 14 MR. NAFTALIN: Oh, at any time the microwave was
- 15 running? Okay, thank you.
- 16 JUDGE STEINBERG: Same answer?
- 17 THE WITNESS: It hasn't changed.
- MR. ARONOWITZ: Okay.
- 19 BY MR. ARONOWITZ;
- 20 Q So this is the key remote control -- this is the
- 21 remote control between Dumont and Fort Lee?
- 22 A Yes.
- Q After the link was deactivated, did the
- 24 configuration that you're showing us here change in any
- 25 fashion?

- JUDGE STEINBERG: Okay, let me just explain. The
- 2 configuration that you're showing us here, you're referring
- 3 to the way the equipment was set up in the second
- 4 demonstration?
- 5 MR. ARONOWITZ: Correct.
- 6 THE WITNESS: The only thing that changed, Your
- 7 Honor, is how the units spoke to each other. Instead of
- 8 using this system, they use what they call a land line, or a
- 9 low-grade data line, so that they function -- do they talk
- to each other? Yes. Instead of using this path, they used
- 11 a phone path.
- JUDGE STEINBERG: Okay, let the record reflect
- that when Mr. Turro was referring to "this path," he was
- referring to Chart 2 which illustrates the microwave path;
- is that correct, Mr. Turro?
- 16 THE WITNESS: Yes, Your Honor.
- 17 MR. ARONOWITZ: Very close. Very close.
- 18 THE WITNESS: Okay.
- BY MR. ARONOWITZ;
- 20 Q I am now talking -- oh, just one generalized
- 21 question because I see that I didn't check it off here. and
- 22 I believe either His Honor or Mr. Naftalin asked -- I
- 23 didn't -- I wasn't suer of the answer so I am asking the
- 24 question again. Please bear with me.
- 25 Did I understand you to say -- strike that.

1	Prior to the link being deactivated, okay, so
2	we're going back to the configuration of the second
3	demonstration of this equipment and Chart No. 2, were you
4	aware of any time that the status lights on the Dumont TC-8
5	did not accurately reflect how Fort Lee was operating?
6	A I don't understand the question.
7	Q As I understand it, the TC-8 unit located in
8	Dumont would
9	JUDGE STEINBERG: Can I take a shot?
10	The status lights on the TC-8 in Dumont indicated
11	to you that certain things were on and off, certain
12	connections were made, et cetera.
13	What Mr. Aronowitz, I think, wants to know is do
14	you ever recall an incident where the TC-8 in Dumont, where
15	the lights, the status lights which were illuminated on the
16	TC-8 in Dumont were not showing an incorrect status.
17	For example, light number five would be lit, but
18	the audio was actually coming from the microwave.
19	THE WITNESS: No.
20	JUDGE STEINBERG: That was your question?
21	MR. ARONOWITZ: Um-hmm.
22	JUDGE STEINBERG: You have to answer yes or no.
23	MR. ARONOWITZ: Yes.
24	JUDGE STEINBERG: Got you, didn't I?
25	MR. ARONOWITZ: I'd have to consult with counsel

- on that one, Your Honor.
- THE WITNESS: Thank you, Your Honor, for
- 3 clarifying.
- 4 MR. ARONOWITZ: Thank you.
- 5 BY MR. ARONOWITZ;
- 6 Q When the data path is -- when the data path is
- 7 blocked such as when, and I will give you an example, such
- 8 as when Serge did his 5-15 test, 5-15-95 test.
- 9 A Yes.
- 10 Q And the audio path was being used as a fail-safe,
- 11 what should the Dumont TC-8 remote status lights indicate?
- 12 A Before or after the jam?
- JUDGE STEINBERG: How about both.
- 14 THE WITNESS: Before the jamming, you know, light
- number five would be lit. On the right hand side of the
- remote control unit, either light number five would be lit
- 17 on the right hand side, or no lights would be lit. That
- would be before the jamming.
- 19 After the jamming, or for that matter, during the
- jamming, light number six would come on.
- JUDGE STEINBERG: During all this time would light
- 22 number one remain on?
- THE WITNESS: Yes.
- BY MR. ARONOWITZ;
- Q If the data on microwave test having went one way

- and there was no return path, how could the Dumont TC-8
- 2 status lights read anything?
- A Via subcarrier from the translator.
- 4 O From what?
- 5 A From the translator. The translator -- now, I
- 6 will make this very simple for you, Mr. Aronowitz. The
- 7 translator has the same 100 slots on it, for the sake of
- 8 argument. And what you would do is the translator via the
- 9 TC-8 remote unit at the transmitter site would generate a 92
- 10 kilohertz subcarrier, which would come back over the air
- from 103.1, and we would receive 103.1 FM in Dumont, New
- 12 Jersey. Demodulate the 92 kilohertz subcarrier -- I know
- you understand this -- and it would go to the remote control
- 14 unit.
- JUDGE STEINBERG: I wish I could describe on the
- record what Mr. Aronowitz's face looks like, but I can't.
- Why don't you get together with your engineer and
- he can tell you what that meant. I don't mean to be picking
- 19 on you but --
- THE WITNESS: There is a lot here to absorb.
- 21 That's a lot.
- JUDGE STEINBERG: It's just very funny.
- 23 (Pause.)
- MR. ARONOWITZ: Just one moment. I just want to
- 25 clear up some confusion.

JUDGE STEINBERG: We can go off the record. Ιt 1 was just indescribable. Let's go off the record. 2 (Pause off the record.) 3 JUDGE STEINBERG: Back on the record. 4 Mr. Aronowitz? 5 MR. ARONOWITZ: I have further questions, Your 6 7 Honor. JUDGE STEINBERG: Let's take a brief recess. 8 (Whereupon, a recess was taken.) 9 JUDGE STEINBERG: Let's go back on the record. 10 Mr. Helmick, do you have any questions? 11 MR. HELMICK: Yes, I do, Your Honor. 12 Trying like everyone else to understand this. 13 CROSS-EXAMINATION 14 BY MR. HELMICK: 15 Mr. Turro, a typical FM translator, you said 16 your's is unique at Fort Lee, and I'll accept that. From 17 what I have heard here, it is unique, definitely. 18 But the typical FM translator, it rebroadcasts a 19 primary FM signal which it receives off the air, correct? 20 Generally speaking. Α 21 It either picks the signal up and rebroadcasts it, 22 or it doesn't pick the signal up. In which case --23 No, that's not true. 24 Α

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All right, would you explain?

25

Q

- 1 A Well, you have stations that are on the reserve
- channel on the educational band that can feed the microwave
- or phone line or STL, whatever means they see --
- 4 Q No, no, no. Wait, wait, wait.
- 5 Let's qualify it and take the Fort Lee situation.
- 6 You are on a nonreserve channel. Let's leave it at that.
- 7 Okay, you've got a translator on a nonreserve channel
- 8 picking up a commercial FM station.
- 9 Typically, that translator either picks the signal
- 10 up off there, in which case it will rebroadcast it?
- 11 A Yes.
- O Or it doesn't pick the signal up off there, in
- which case it won't broadcast it and it will be just a dead
- 14 carrier.
- 15 A Okay.
- 16 Q So when you say you need remote control over the
- 17 Fort Lee translator, it's not because of any function of the
- translator per se. You don't turn -- normally, you don't
- turn an FM translator on or off. It's either rebroadcasting
- 20 a signal it receives or it's not, right?
- 21 A That's correct. But you have to realize that the
- 22 translator in Fort Lee --
- Q No, I'll get to that.
- 24 A I'm sorry. Okay. I'm sorry.
- JUDGE STEINBERG: We're still dealing with typical

- 1 translator.
- MR. HELMICK: That's correct.
- JUDGE STEINBERG: Okay.
- 4 BY MR. HELMICK:
- Now, what makes your translator at Fort Lee
- 6 different is that you have an auxiliary transmitter?
- 7 A Not only an auxiliary transmitter, but an
- 8 auxiliary --
- 9 O Transmitting antenna?
- 10 A Yes, sir.
- 11 Q All right. And you have a -- what else do you
- 12 have?
- 13 A I have two paths of audio from out there; one from
- 14 Pomona; one from Monticello, both of which are processed --
- have audio processed through separate audio processing units
- and which can be switched onto the translator at 103.1 FM.
- 17 Q So you have two receiving antennas. One pointed
- towards Pomona and one pointed towards Monticello?
- 19 A I've had more than that, but for the sake of
- 20 argument, yes.
- Q What other antennas have you had? And presumably
- 22 you have a receive antenna pointed back towards the
- 23 microwave?
- 24 A I can answer everything except the last thing you
- 25 said.

- JUDGE STEINBERG: Well, okay.
- THE WITNESS: Oh, receive antenna toward the
- 3 microwave coming in at one point in time, okay.
- 4 Let me say what the antenna system is. Do you
- 5 want me to get into that or not?
- BY MR. HELMICK:
- 7 O Well, at one point in time when you had the
- 8 microwave operating, that's what we're talking about.
- 9 A Okay.
- 10 O You had a receive antenna pointed in the direction
- 11 of the microwave --
- 12 A Yes.
- 13 Q -- to get incoming signals?
- 14 A Yes. Yes.
- 15 Q So you had -- that's three antennas.
- 16 A Okay.
- 17 Q Were there any other antennas?
- 18 A At one point there was a receive antenna in the
- 19 basement of the building for 94.3.
- 20 And to further clarify so it's clear, the receive
- 21 antenna initially from October on, there were two antennas
- 22 hooked up for 99.7 FM; one of which pointed directly at
- Monticello, and the other one was pointed directly at WBAI,
- 24 New York.
- Q Well, because of the multiplicity in the antennas,

- 1 receive antennas and transmit antennas, because of this
- 2 multiplicity, that's what you needed remote control for, to
- 3 switch back and forth between these various --
- 4 A Yes.
- 5 Q Couldn't you just as well have done that by
- 6 telephone line?
- 7 A Well, if you already have a micro path -- let's
- 8 use your example. You mean a dial-up telephone or do you
- 9 mean --
- 10 Q No, just a telephone line. Not a dial up; a
- 11 dedicated telephone line.
- A Well, to do that is about \$150 a month. Why would
- you want to spend \$150 a month when you have a licensed
- 14 microwave sitting there and you can use it for free?
- One of the functions that you had built into this
- 16 TC-8 unit -- would you describe what channel number seven
- 17 was, please?
- 18 A Channel number seven or indicator number seven?
- 19 O Well, I'm not sure.
- 20 JUDGE STEINBERG: Excuse me. Why don't you
- 21 describe both?
- THE WITNESS: Okay. Channel number seven, to the
- 23 best of my knowledge and recollection, didn't have any
- 24 function whatsoever.
- Light number seven would indicate that the eight

- 1 kilohertz broadcast loop was on live, which I must add never
- 2 happened.
- BY MR. HELMICK:
- What is this eight kilohertz broadcasting loop?
- 5 A We're going back to the days of Franklin Lakes
- 6 here. There was a point in time back in -- and I'm hoping I
- 7 can really discuss this. Okay.
- MR. NAFTALIN: You didn't hear anything from me.
- 9 THE WITNESS: Okay, we're going back to the days
- of Franklin Lakes. Back in 1993, the phone company was
- 11 struggling with whether or not they going to install
- 12 broadcast loops. They became expensive to install. The
- people who had installed them and knew them well either were
- 14 dying or retiring, and there was talk about discontinuing
- 15 broadcast circuits because they are just so expensive.
- And I thought myself, gosh darn it, if I don't put
- this thing in now, I'll never have it. And I thought, you
- 18 know, I don't know if -- and I do believe that when I
- 19 installed that eight kilohertz line I did not have the
- license for WMG499, and I didn't know if I was going to get
- 21 it because of congestion in the New York area, whether I
- 22 might even be licensed.
- So with this stuff hanging over my head, geeze,
- you may not be able to get broadcast circuits anymore, if
- you do get them, they're going to be really expensive, I

- said let me put in a low grade eight kilohertz circuit in
- 2 the event of an emergency for the Bergen County Office of
- 3 Emergency Management, knowing that there was a good chance
- 4 that -- and I also installed it for 32 messages, by the way,
- 5 knowing that there was a chance that I might never be able
- 6 to get this circuit. So that's what -- an eight kilohertz
- 7 line is.
- And it is important to remember, Mr. Helmick, that
- 9 an eight kilohertz circuit is less than AM quality in terms
- of audio response. You really wouldn't want to use it for
- 11 anything long term or permanent.
- BY MR. HELMICK:
- 13 Q Yes, but you were using this eight kilohertz
- 14 circuit for -- you weren't using it to deliver audio, were
- 15 you?
- 16 A Was I delivering it for audio?
- I had the option of doing it. I never did it.
- 18 Q When would you use that circuit to deliver audio?
- 19 A In the event that WMG499 wasn't -- I didn't get
- the license for it, and let me explain something to you so
- 21 you understand the wave of logic here.
- To install the circuit was approximately \$2,000,
- 23 and the monthly charge on it was about 100 to 150 dollars a
- 24 month. I don't remember the exact number. I had already
- invested this amount of money to have a circuit installed

- long before -- before WMG499 was granted. And having
- outlaid that \$2,000 to install this circuit, I really didn't
- 3 want to lose it or give it up for two reasons:
- I had already invested \$2,000 into having it
- installed, and I was afraid if I gave it up I'd never get it
- 6 back.
- 7 Q So what's the big expense? This phone line was
- 8 already there, correct?
- 9 A For what?
- 10 O You had an eight kilohertz phone line. What was
- 11 the function of that phone line?
- 12 A To get audio there for 32 messages if it ever
- 13 became necessary.
- JUDGE STEINBERG: You said "get audio there."
- 15 Where is "there"?
- THE WITNESS: To the Fort Lee translator, I'm
- 17 sorry.
- 18 BY MR. HELMICK:
- 19 O All right, and you could use that circuit for
- 20 emergency purpose, emergency communications?
- 21 A Sure. Sure.
- 22 Q And you could also use that circuit for telemetry
- if you wanted to, could you not?
- 24 A I never ever in my entire life ever used a -- no.
- Q You're sure of that?

- 1 A Yes.
- 2 Q There is no way you could ever use that eight
- 3 kilohertz circuit for telemetry purposes?
- A I've -- never, Mr. Helmick, in my entire life as a
- 5 broadcast engineer, I've never seen anyone do it, and I've
- 6 never attempted it. And one thing I have learned in life is
- 7 never say anything is impossible. It's entirely possible.
- 8 I have never ever seen it done.
- JUDGE STEINBERG: Okay, this morning there was a
- 10 56 kb phone line that was used between Dumont and
- 11 Monticello.
- 12 THE WITNESS: Yes.
- JUDGE STEINBERG: And now you got an eight
- 14 kilohertz -- I mean, the 56 kb line carried telemetry; is
- 15 that right?
- 16 THE WITNESS: Carries lots of things.
- JUDGE STEINBERG: Okay, but it carries -- one
- things it carried was telemetry?
- 19 THE WITNESS: Yes.
- JUDGE STEINBERG: But you said the eight kilohertz
- telephone line, is that not capable of carrying telemetry?
- In other words, explain why, in your opinion, it's not used
- 23 for that purpose.
- THE WITNESS: You would have real problems --
- JUDGE STEINBERG: Or is this apples and oranges

T adatii	1	again	?
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- THE WITNESS: We are really talking apples and
- oranges here, and I apologize. I mean, you are really
- 4 talking apples and oranges.
- 5 Why would you use an eight kilohertz line when you
- 6 can get a low grade line for less money to do the same job?
- 7 And you would also have trouble matching it up.
- I mean, I don't even know what the antecedent is
- 9 for handing off data as opposed to audio. Audio is
- 10 generally 600 ohms, and I -- I don't think it would work. I
- mean, maybe it would work. Something I will try some day.
- BY MR. HELMICK:
- 13 O Forget Franklin Lakes for the time being. Once
- 14 WJUX goes on the air you have -- you don't send any 32
- second spots to the translator after that point. Any
- 16 commercial spots are broadcast on Jukebox Radio network, set
- up the line to WJUX, and they are broadcast by WJUX.
- 18 A Okay.
- 19 Q So there is no purpose whatsoever to send 32
- second spots to Fort Lee once WJUX goes on the air, correct?
- 21 A Not necessarily.
- 22 Q And in fact you did not broadcast any 32 second
- 23 spots on the translator, did you, Mr. Turro?
- 24 A Not that I recall.
- Q All right, thank you.

- So you have this eight kilohertz circuit sitting there essentially doing nothing.
- 3 A That's correct.
- 4 Q And you say that it is not sufficient quality to
 - send an AM signal, you know, a broadcast signal out to the
- 6 Fort Lee translator.
- 7 My question to you is, is it of sufficient quality
- 8 to be used on a temporary basis for emergency messages, to
- 9 send emergency messages to the Fort Lee translator?
- 10 A Oh, sure. Sure.
- 11 Q Then my question to you, sir, is very simple.
- 12 Could you not also use that eight kilohertz circuit for
- telemetry purposes?
- 14 A We're talking applies and oranges here.
- MR. NAFTALIN: I think the witness has answered
- that question already. Asked and answered.
- JUDGE STEINBERG: Well, he can answer again.
- MR. NAFTALIN: Okay.
- JUDGE STEINBERG: The question was "could".
- THE WITNESS: I've never tried it so I don't know,
- 21 but I will try it.
- 22 (Pause.)
- JUDGE STEINBERG: Go off the record.
- (Pause off the record.)
- JUDGE STEINBERG: We're back on the record.

1		Mr. Helmick?
2		BY MR. HELMICK:
3	Q	Could the Fort Lee translator operate without a
_ 4	data link	?
5	A	Without remote control?
6	Q	Sure.
7	А	Sure.
8	Q	Indeed, the Fort Lee translator could,
9	irrespect	live of where the data link comes from, microwave,
10	whatever	it comes from, the Fort Lee translator could have
11	been oper	rated without the microwave on; is that correct?
12	А	Yes.
13	Q	And, in fact, you're operating the Fort Lee
14	translato	or today without a microwave on?
15	A	That is correct.
16		MR. HELMICK: I think that's it, Your Honor.
17		JUDGE STEINBERG: Mr. Riley?
18		MR. RILEY: No, Your Honor. I have no questions.
19		JUDGE STEINBERG: Redirect?
20		MR. RILEY: Explanations?
21		MR. NAFTALIN: Could I get about 30 seconds to
22	think abo	out this?
23		JUDGE STEINBERG: Sure. We'll go off the record.
24		(Pause off the record.)
25		JUDGE STEINBERG: Back on the record.

1	MR. NAFTALIN: Thank you, four Honor.
2	REDIRECT EXAMINATION
3	BY MR. NAFTALIN:
4	Q Mr. Turro, somewhere in the questioning from Mr.
5	Aronowitz when the two of you were discussing the May 15,
6	1995, testing by Mr. Loginow when the microwave was jammed,
7	he was testing with a signal generator as he's testified in
8	this proceeding a few days ago.
9	Did you testify that the data path on the
10	microwave would have been interrupted during the period of
11	time Mr. Loginow transmitted a signal on 951 megahertz?
12	A Yes.
13	Q And then did you testify that when he stopped
14	transmitting a signal on 951 megahertz the data channel then
15	would have resumed?
16	A Yes.
17	Q Okay. And we have been over this, I think,
18	plenty, but when the data path was interrupted by Mr.
19	Loginow's activities, that's what caused the Fort Lee
20	translator to switch over to receipt of the audio path on
21	the microwave?
22	A Yes.
23	Q Okay. And so when between you and Mr. Aronowitz
24	something along the lines of the microwave was on the air as
25	it was on the Fort Lee translator, something like that was

- said. It confused me too. I want to see if we can clarify
- what that meant, okay.
- When Mr. Loginow performed his signal generator
- 4 testing on May 15, 1995, that caused -- that caused the Fort
 - 5 Lee translator to start rebroadcasting the audio on the
 - 6 microwave audio path?
 - 7 A Yes.
 - 8 O Okay. Thank you.
 - 9 Mr. Turro, you have testified that the FCC ordered
- 10 you to shut down WMG499?
- 11 A Yes.
- 12 Q Okay. And that occurred something like early July
- 13 1995?
- 14 A Somewhere in that area.
- Okay. Tell us again -- okay, you said you -- is
- it correct that you replaced the data channel function on
- the microwave with a low level telephone line?
- 18 A Yes, I replaced -- so that the two TC-8 units can
- talk to each other, I installed an 9600 baud circuit, not
- using a kilohertz circuit, but installed a 9600 baud circuit
- 21 so that the units could communicate with each other.
- Maybe in retrospect, I wish I had tried using
- 23 eight kilohertz line.
- Q Is it correct that you -- did you even think of
- 25 using the eight kilohertz line --

- 1 A No. No.
- 2 O Let me finish. I'm sorry.
- 3 Did you even think about using the eight kilohertz
- 4 line for transmission of data between Dumont and Fort Lee?
- 5 A No.
- 6 Q About how many years have you been either a chief
- 7 engineer or a chief operator in radio stations,
- 8 approximately?
- 9 A Twenty-five years.
- 10 Q About 25 years.
- Have you seen a lot of -- have you seen a lot of
- lines and data lines and all that sort of thing?
- 13 A Yes, sir.
- 14 Q And had you ever seen an eight kilohertz line used
- 15 for transmission of data?
- 16 A Never.
- 17 Q Okay. Is that -- never mind. I'll stick with
- 18 that.
- 19 You also said -- you also said that when the Fort
- 20 Lee translator initially went on the air you
- 21 had -- in other words, something like late October 1994 --
- you had two antennas installed as part of the way to receive
- 23 programming from the Monticello station off the air; is that
- 24 right?
- 25 A Yes.

- Okay. Tell us again, why did you have two
- 2 antennas installed?
- 3 A The phase cancellation device, which I had
- 4 installed, requires an input from a desired signal, and an
- 5 input from an undesired signal. And what would happen is
- these two signals would be combined into a box that when you
- 7 turn the knob on it the undesired signal would disappear.
- 8 So you need to have a signal from undesired and a signal
- 9 from desired. And by putting it in this box through magic,
- 10 this one would vanish.
- 11 Q So since I think I understand magic a little bit
- more than what you just said, is it safe to say that the
- antenna that was receiving WBAI was -- you had an antenna,
- you installed those antennas yourself; is that right?
- 15 A Yes.
- Okay. When you installed the antenna for WBAI,
- that was to allow the phase canceler to know what signal to
- 18 screen out?
- 19 A Exactly.
- 20 Okay. And then the other antenna that you
- installed just picked up Monticello off the air and then let
- the Fort Lee translator rebroadcast it?
- 23 A Correct.
- MR. NAFTALIN: Okay, that's all I have, Your
- 25 Honor.

1	JUDGE STEINBERG: Mr. Aronowitz?
2	MR. ARONOWITZ: I may have one question, but I
3	want to that was prompted by this. I hope it was
_ 4	prompted by this, but I need to find it in the record, so if
5	I could take just one second.
6	JUDGE STEINBERG: We will go off the record.
7	(Pause off the record.)
8	MR. ARONOWITZ: I don't believe we have any
9	further questions, Your Honor.
10	JUDGE STEINBERG: Mr. Helmick?
11	MR. HELMICK: No, Your Honor.
12	JUDGE STEINBERG: Mr. Riley?
13	MR. RILEY: No, Your Honor.
14	JUDGE STEINBERG: Okay, this completes this
15	portion of the cross-examination of Mr. Turro. And I
16	believe at this time we will excuse Mr. Luna. Thank you for
17	coming, and thanks for your patients.
18	You still can't talk to anybody about
19	MR. LUNA: Yes, sir.
20	JUDGE STEINBERG: your testimony and about what
21	you heard here today except for the attorneys.
22	MR. LUNA: Okay.
23	JUDGE STEINBERG: Okay, and then, you know, they
24	can tell you whatever they want you to do from here on in.
25	Why don't we go off the record and let Mr. Helmick